

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) A process for producing ethylene comprising:

(a) ~~preparing a low sulfur liquid hydrocarbon composition containing less than one ppm sulfur~~ Fischer-Tropsch syncrude;

(b) ~~adding to said low sulfur composition a sulfur-containing compound or a sulfur-containing liquid hydrocarbon mixture to produce a blend containing at least one ppm of sulfur~~ preparing a lighter naphtha fraction containing at least one C₅-C₁₀ hydrocarbon and having a sulfur content of at least 1 ppm;

(c) preparing a heavier fraction having a sulfur content of less than 100 ppm;

(d) blending said Fischer-Tropsch syncrude with the lighter naphtha fraction and the heavier fraction;

(e) ~~(e)~~ feeding said blend to a cracker unit;

~~(d)~~ (f) converting the blend in the cracker unit to a product stream comprising ethylene; and,

(e) ~~(g)~~ recovering ethylene from the product stream of the cracker unit.

2. (Original) The process according to claim 1, wherein the cracker unit is a naphtha cracker.

3. (Currently Amended) The process according to claim 1, wherein the ~~sulfur-containing compound is~~ lighter naphtha fraction contains dimethyl disulfide.

Claim 4 (Canceled)

5. (Currently Amended) The process according to claim ~~[[4]]~~ 1, wherein the Fischer-Tropsch ~~naphtha syncrude~~ is derived from synthesis gas.

6. (Original) The process according to claim 5, wherein the synthesis gas is derived from natural gas.

7. (Currently Amended) The process according to claim 1, wherein the ~~low-sulfur liquid hydrocarbon composition~~ heavier fraction comprises C₁₁-C₅₀ compounds.

Claim 8 (Canceled)

9. (Original) The process according to claim 1, where the blend fed to the cracker unit contains at least about 10 ppm sulfur.

10. (Original) The process according to claim 9, wherein said blend contains at least 100 ppm sulfur.

Claim 11 (Canceled)

12. (Currently Amended) The process according to claim ~~[[11]]~~ 1, which includes the steps of separating said syncrude into a naphtha fraction containing at least one C₅-C₁₀ hydrocarbon and a heavier fraction, blending said heavier fraction with a heavy fraction obtained from an Fischer-Tropsch syncrude, and refining the blend to reduce the sulfur content to below 100 ppm before mixing with said lighter naphtha fraction.

13. (Previously Presented) A process for manufacturing ethylene including a first site and a second site, remote from each other, wherein the first site forms a Fischer-Tropsch naphtha having less than 1 ppm sulfur to be used at the second site, the second site forming the ethylene, the process comprising:

(a) receiving at the second site the Fischer-Tropsch naphtha having less than 1 ppm sulfur, which is made by a method comprising:

- (i) converting methane to syngas;
- (ii) subjecting the syngas to Fischer-Tropsch synthesis to form hydrocarbonaceous products;

(iii) isolating the Fischer-Tropsch naphtha having less than 1 ppm sulfur from the hydrocarbonaceous products;

(b) adding at least one sulfur-containing compound to the Fischer-Tropsch naphtha to provide a blend having at least 1 ppm sulfur;

(c) converting the blend in a cracker unit to a product stream comprising ethylene; and

(d) isolating ethylene from the product stream of the cracker unit.

14. (Original) The process according to claim 13, wherein the blend contains about 10 to 100 ppm sulfur.

15. (Original) The process according to claim 13, wherein the Fischer-Tropsch naphtha is received at the second site from a marine tanker, rail car, pipeline, truck, or barge.

16. (Original) The process according to claim 13, wherein the sulfur-containing compound is selected from the group consisting of dimethyl disulfide, methylethyldisulfide, diethyl disulfide, diethyl sulfide, dipropyl sulfide, and mixtures thereof.

17. (Previously Presented) A process for manufacturing ethylene including a first site and a second site, remote from each other, wherein the first site forms a Fischer-Tropsch hydrocarbonaceous product, including at least one naphtha and having less than 1

ppm sulfur to be used at the second site, the second site forming the ethylene, the process comprising:

(a) transporting the Fischer-Tropsch hydrocarbonaceous product including at least one naphtha and having less than 1 ppm sulfur, which is made by a method comprising:

(i) converting methane to syngas;

subjecting the syngas to Fischer-Tropsch synthesis to form hydrocarbonaceous products;

(iii) isolating a Fischer-Tropsch hydrocarbonaceous product including at least one naphtha from the hydrocarbonaceous products;

(b) receiving at the second site the Fischer-Tropsch hydrocarbonaceous product including at least one naphtha and having less than 1 ppm sulfur;

(c) blending the Fischer-Tropsch hydrocarbonaceous product including at least one naphtha and having less than 1 ppm sulfur with a sulfur-containing composition to provide a blend having at least 1 ppm sulfur;

(d) feeding the blend to a cracker unit;

(e) converting the blend in the cracker unit to a product stream comprising ethylene;
and

(f) isolating ethylene from the product stream of the cracker unit.

18. (Original) The process according to claim 17, wherein the transporting is performed by marine tanker, rail car, pipeline, track, barge, or combinations thereof.

19. (Original) The process according to claim 17, wherein the sulfur-containing composition is selected from the group consisting of dimethyl disulfide, methylethyldisulfide, diethyl disulfide, diethyl sulfide, dipropyl sulfide, and mixtures thereof.

20. (Original) The process according to claim 17, wherein the blend contains at least 10 ppm sulfur.

21. (New) The process according to claim 1, wherein said lighter fraction is obtained from a Fischer-Tropsch reaction.

22. (New) The process according to claim 1, wherein said heavier fraction is obtained from a Fischer-Tropsch reaction.

23. (New) The process according to claim 1, wherein both said lighter and heavier fractions are obtained from a Fischer-Tropsch reaction.